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ACRONYMS AND ABBREVIATIONS

%	percent
°C	Celsius
°F	Fahrenheit
µg/m ³	micrograms per cubic meter
AB	Assembly Bill
ACC	Advanced Clean Cars
ACC	Avian Conservation Center
ACM	Animal Care Manuals
ACM	asbestos-containing materials
ADA	Americans with Disabilities Act
AEP	Association of Environmental Professionals
AF	acre-feet
AFY	acre-feet per year
AHERA	Asbestos Hazard Emergency Response Act
AIA	Area of Influence
ALS	Advanced Life Support
ALUC	Los Angeles County Airport Land Use Commission
ALUP	Los Angeles County Airport Land Use Plan
ANSI	American National Standards Institute
APA	Allowed Pumping Allocation
APC	Area Planning Commission
APS	Alternative Planning Strategy
AQMP	Air Quality Monitoring Plan
ARB	Air Resource Board
ASHRAE	American Society of Heating, Refrigerating, and Air-Conditioning Engineers
ATS	Aerial Tram Service
AVO	average vehicle occupancy
AWA	Animal Welfare Act
AZA	American Zoological Association
Basin Plan	Water Quality Control Plan for the Los Angeles Region
BC	Before Common Era
BEN	Bicycle Enhanced Network
bgs	below ground surface
BLM	Bureau Land Management
BLN	Bicycle Lane Network
BMP	best management practice
BOE	Bureau of Engineering
BP	before present
BRMMP	Biological Resources Mitigation and Monitoring Plan
BTU	British thermal units
BUR	Bob Hope Airport
C&D	construction and demolition
C ₂ H ₃ Cl	vinyl chloride
CAA	Clean Air Act
CAD	Computer-aided design

Acronyms and Abbreviations

CAFE	Corporate Average Fuel Economy
CalEEMod	California Emission Estimator Model
CalEMA	California Emergency Management Agency
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
CALGreen	California's Green Building Standard Code
California Register	California Register of Historical Resources
Cal/OSHA	California Department of Occupational Safety and Health Agency
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CAAQS	California Ambient Air Quality Standards
CARB	California Air Resources Board
CBC	California Building Code
CCAA	California Clean Air Act
CCE	State Candidate Endangered
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDPH	California Department of Public Health
CE	State Endangered
CEC	California Energy Commission
CEC-A15	California Retail Fuel Outlet Annual Reporting
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESA	California Endangered Species Act
CFC	California Fire Code
CFR	Code of Federal Regulations
cfs	Cubic feet per second
CGS	California Geological Survey
CH ₄	methane
CHP	California Highway Patrol
CHRIS	California Historical Resources Inventory System
CHL	California Historical Landmarks
City	City of Los Angeles
CIWMB	California Integrated Waste Management Board
CIWQS	California Integrated Water Quality System Project
CMP	Congestion Management Plan
CMP	Construction Mitigation Plan
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO ₂	carbon dioxide

CO ₂ e	carbon dioxide equivalents
COP-16	2010 United Nations Climate Change Conference
COP-21	2015 United Nations Climate Change Conference
County	Los Angeles County
CPED	Circulation and Parking enhancement Plan
CPS	Cleanup Program Sites
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
Cr(VI)	hexavalent chromium
CSR	Comprehensive Strategies Report
CT	State Threatened
CTC	California Transportation Commission
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CWC	California Water Code
CY	Calendar year
cy	cubic yard
DASH	Downtown Area Short Hop
dB	decibel
dBA	A-weighted decibels
DBH	Diameter breast height
DCE	dichloroethanes
DCP	Los Angeles Department of City Planning
DDT	dichlorodiphenyltrichloroethane
Delta	Sacramento-San Joaquin River Delta
DoD	Department of Defense
DOT	Department of Transportation
DPW	Los Angeles County Department of Public Works
DTSC	Department of Toxic Substance Control
DWR	California Department of Water Resources
E. Coli	fecal coliform
EBEWE	Existing Buildings Energy and Water Efficiency
ECHO	Enforcement Compliance History Online
ECSP	Erosion and Sediment Control Plan
EDR	Environmental Data Resources, Inc.
EFRAP	Evacuation and Fire Response Access Plan
EI	Expansion Index
EIR	Environmental Impact Report
EISA	Energy Independence and Security Act
EMFAC	EMission FACTors model
EMI	Exposure Model for Individuals
EMS	emergency medical service
EO	Executive Order
EPA	Environmental Protection Agency
EPCRA	Emergency Prevention and Community Right to Know Act
EPD	Environmental Programs Division

Acronyms and Abbreviations

ESA	Environmental Site Assessment
EV	Electric Vehicle
EWMP	Enhanced Watershed Management Plan
LRT	Metro Light Rail Transit line
FAA	Federal Airport Authority
Facilities Plan	City of Los Angeles Solid Resources Infrastructure Strategy Facilities Plan
FATO	Final Approach and Takeoff
FCPCMP	Final Closure/Post-Closure Maintenance Plan
FE	Federally Endangered
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHSZ	Fire Hazard Severity Zone
FHWA	Federal Highway Administration
FICUN	Federal Interagency Committee on Urban Noise
FINDS	Facility Index System
FIRM	Flood Insurance Rate Maps
FPS	Fire Preemption System
FRAP	Fire Resource Management Program
Framework Element	City of Los Angeles General Plan Framework Element
ft	feet
FT	Federally Threatened
FTA	Federal Transit Administration
FTE	full-time equivalent
FY	Fiscal Year
Gal	gallon
gal/hp/hr	gallons per horsepower per hour
GBMP	Groundwater Basins Master Plan
GC	Government Code
GCF	Green Climate Fund
GHG	greenhouse gas
GIS	Geographic Information System
GLAC	Greater Los Angeles County
GLAZA	Greater Los Angeles Zoo Area
GO!	Glendale Outdoors!
gpd	gallons per day
gpm	gallons per minute
GRACE	Gorilla Rehabilitation and Conservation Education
GSA	groundwater sustainability agency
GSP	groundwater sustainability plan
GWh	gigawatt hours
GWP	global warming potential
H ₂ S	hydrogen sulfide
HAZNET	Hazardous Waste Information System
HCM	Historic-Cultural Monument
HCPU ₂	Hollywood Community Plan Update
HFC	hydrofluorocarbons

HIN	High Injury Network
HOV	high-occupancy vehicle
hp	horsepower
HPZ	Helicopter Protection Zone
HRI	Historic Resource Inventory
HSC	California Health and Safety Code
HUC	Hydrologic Unit Code
HVAC	heating, ventilation, and air conditioning
Hwy	Highway
hz	hertz
I-	Interstate
IBC	International Building Code
ICC	International Code Council
ICU	Intersection Capacity Utilization
in	inches
IPCC	Intergovernmental Panel on Climate Change
IRP	Integrated Resource Plan
IRWMP	Integrated Water Resource Management Plan
IS	Initial Study
IWMA	Integrated Waste Management Act
IWMP	Integrated Waste Management Plan
JPA	Joint Powers Authority
k-12	kindergarten through 12 th grade
kBTU	kilo-British thermal units
kBTU/sf/year	kBTU per square foot of building area per year
kg CO ₂	kilograms of carbon dioxide
KVL	Key Viewing Location
kWh	kilowatt
LAA	Los Angeles Aqueduct
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LACoFD	Los Angeles County Fire Department
LADBS	Los Angeles Department of Buildings and Safety
LADOT	Los Angeles Department of Transportation
LADPW	City of Los Angeles Department of Public Works
LADWP	City of Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAGBC	Los Angeles Green Building Code
LAGWRP	Los Angeles – Glendale Water Reclamation Plant
LAIR	Living Amphibians Invertebrates and Reptiles
LAMC	Los Angeles Municipal Code
LAPD	Los Angeles Police Department
LASAN	City of Los Angeles Bureau of Sanitation
LA Sanitation	City of Los Angeles Bureau of Sanitation
LAUSD	Los Angeles Unified School District
LAX	Los Angeles International Airport
LBP	lead-based paint

Acronyms and Abbreviations

lbs	pounds
lbs/gal	pounds per gallon
LCFS	Low Carbon Fuel Standard
LED	light emitting diode
LEED	Leadership in Energy and Environmental Design
L_{eq}	Equivalent Noise Level
LEV	Low-Emission vehicle
LHMP	Local Hazard Mitigation Plan
LID	low-impact development
L_{max}	Maximum Instantaneous Noise Level
LORS	Laws, Ordinances, Regulations, and Standards
LOS	Level of Service
LRA	Local Responsibility Area
LRRMP	Los Angeles River Revitalization Master Plan
L RTP	Long Range Transportation Plan
LST	localized significance threshold
LUFT	Leaking Underground Fuel Tanks
LUST	leaking underground storage tank
MBTU	Million British thermal units
MCL	Maximum Containment Level
MCM	Minimum Control Measures
MCP	Mobile Command Post
MD	midday
MERV	Minimum Efficiency Reporting Value
Metro	Los Angeles Metropolitan Transportation Authority
mg/cm ²	milligram per square centimeter
mg/yr	million gallons per year
mgd	million gallons per day
MLD	Most Likely Descendant
MM	Mitigation Measure
mm	millimeters
Mmax	maximum moment magnitude
MMRP	Mitigation Monitoring and Reporting Program
MMT _{CO₂e}	million metric tons of CO ₂ e
MOU	Memorandum of Understanding
mpg	miles per gallon
mph	miles per hour
MPO	metropolitan planning organization
MPP	LADOT Manual of Policies and Procedure
MS ₄	Municipal Separate Storm Sewer System
msl	mean sea level
MT CO ₂ e	metric tons of CO ₂ e
MW	megawatts
MWD	Metropolitan Water District
MWh	Megawatt-hours
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards

NAHC	Native American Heritage Commission
NAL	Numeric Action Level
NAT	No-Action-Taken
National Register	National Register of Historic Places
NEL	Numeric Effluent Limitation
NEN	Neighborhood Enhanced Network
NESHAP	National Emissions Standard for Hazardous Air Pollutants
NFA	No Further Action
NFIP	National Floodplain Insurance Program
NFPA	National Fire Protection Association
NHHS	North Hollywood High School
NHPA	National Historic Preservation Act of 1966
NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide
NOI	Notice of Intent
NOP	Notice of Preparation
NO _x	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NPS	National Park Service
NRCS	National Resources Conservation Service
NRHP	National Register of Historic Places
NY	New York
O&M	Operations and Maintenance
O ₃	ozone
Ocean Plan	Water Quality Control Plan for Ocean Waters of California
OEHHA	Office of Environmental Health Hazard Assessment
OES	State Office of Emergency Services
OPR	Office of Planning and Research
ORCR	Office of Resource Conservation and Recovery
OS	Open Space
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
PA	public address
Pb	lead
PCB	polychlorinated biphenyl
PCE	tetrachloroethylene
PE	Professional Engineer
PED	Pedestrian Enhanced Districts
PeMS	Caltrans Performance Measurement System
PFC	perfluorocarbons
PG	Professional Geologist
PHEV	plug-in hybrid electric vehicles
PHI	Points of Historical Interest
PI	Plasticity index
PIIRA	Petroleum Industry Information Reporting Act
pLAn	City of Los Angeles Sustainable City pLAn

Acronyms and Abbreviations

PM	particulate matter
PM ₁₀	particulate matter equal to or less than 10 microns in diameter
PM _{2.5}	particulate matter equal to or less than 2.5 microns in diameter
POTW	publicly owned treatment work
ppm	Parts per million
PPOP	plans, programs, ordinances, or policies
PPV	peak particle velocity
PRC	Public Resources Code
Project	Los Angeles Zoo and Botanical Gardens Vision Plan
Project site	133-acre Zoo and surrounding parking lots and roads
psi	per square inch
PV	photovoltaic
PVC	polyvinyl chloride
pVES	Preliminary vapor encroachment screen
qd	quartz diorite bedrock
Qa	alluvial material
RAP	Los Angeles Department of Recreation and Parks
RCNM	Roadway Construction Noise Model
RCP	Regional Comprehensive Plan
RCRA	Resource Conservation and Recovery Act
RCRA-SQG	Resource Conservation and Recovery Act Small Quantity Generator
REAP	Rain Event Action Plan
REC	recognized environmental conditions
RFS	Renewable Fuels Standard
RMS	root mean square
ROG	reactive organic gases
ROWD	Report of Waste Discharge
RPOSD	Los Angeles Regional Park and Open Space District
RPS	Renewable Portfolio Standard
RPZ	Runway Protection Zones
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SAFE	Safer, Affordable, Fuel-Efficient
Safety Element	City of Los Angeles General Plan Safety Element
SAR	Second Assessment Report
SB	Senate Bill
SC	Site Cleanups
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCAR	Sewer Capacity Availability Review
SCS	Sustainable Communities Strategy
SEA	Significant Ecological Areas
SECSD	Security Services Division
sf	square foot/feet
SF ₆	sulfur hexafluoride
SFHA	Special Flood Hazard Area

SFVGB	San Fernando Valley Groundwater Basin
SGMA	Sustainable Groundwater Management Act
SHMP	State of California Multi-Hazard Mitigation Plan
SLIC	Spills, Leaks, Investigations, and Cleanups
SLTRP	Strategic Long-Term Resource Plan
SMARTS	Stormwater Multi-Application, Reporting, and Tracking System
SMFD	Santa Monica Fire Department
SO ₂	sulfur dioxide
SO ₄ ²⁻	sulfate ion
SoCal Gas	Southern California Gas Company
SOP	Standard Operating Procedure
SO _x	sulfur oxides
Specific Plan	Los Angeles Specific Plan for the Management of Flood Hazards
SR-	State Route
SRA	Source Receptor Area
SRRE	Source Reduction and Recycling Element
SSC	California Species of Special Concern
SSP	Species Survival Plans
STEM	Science/Technology/Engineering/Math
STIP	State Transportation Improvement Program
SUSMP	Standard Urban Stormwater Mitigation Plan
SVP	Society of Vertebrate Paleontology
SWIRP	Solid Waste Integrated Resources Plan
SWMM	Storm Water Management Model
SWP	State Water Project
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminants
TAG	Transportation Assessment Guidelines
TCE	trichloroethylene
TDM	Transportation Demand Management
TEN	Transit Enhanced Network
TIA	Transportation Impact Analysis
TIMS	Transportation Injury Mapping System
TMDL	Total Maximum Daily Load
TNC	Transportation Network Companies
TPA	Transit Priority Areas
Transportation Assessment	Los Angeles Zoo Vision Plan Transportation Assessment
TSCA	Toxic Substances Control Act of 1976
TSS	Total Suspended Solids
Ttucg	Upper Topanga Formation
U.S.	United States
UBC	Uniform Building Code
ULARA	Upper Los Angeles River Area
UNFCCC	United Nations Framework Convention on Climate Change
USACE	U.S. Army Corps of Engineers

Acronyms and Abbreviations

USC	U.S. Code
USC	University of Southern California
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USNAS	U.S. National Academy of Sciences
UST	underground storage tank
UWMP	Urban Water Management Plan
V/C	volume-to-capacity ratio
VdB	decibel notation
VEC	vapor encroachment condition
VEN	Vehicle Enhanced Network
Vision Plan	Los Angeles Zoo and Botanical Gardens Zoo Vision Plan
VMT	vehicle miles traveled
VOC	Volatile Organic Compound
WCIP	Wastewater Capital Improvement Program
WEAP	Worker Environmental Awareness Program
WFMP	Wildfire Fuel Management Plan
Wh	watt-hours
WIP	Wetland Identification Program
WL	CDFW Watch List
Wood	Wood Environment & Infrastructure Solutions, Inc.
WQCMP	Water Quality Compliance Master Plan for Urban Runoff
WRD	Water Replenishment District of Southern California
WSA	water supply assessments
WUI	Wildland Urban Interface
WWBG	Western Working Bat Group
X-SO ₄ ²	sulfates
ZAHP	Zoo and Aquarium All Hazards Preparedness, Response, and Recovery
ZEV	zero emission vehicle
Zoning Code	City of Los Angeles Planning and Zoning Code
Zoo	Los Angeles Zoo and Botanical Gardens
Zoo Security	Los Angeles Zoo Security